



INSTALLATION

GUIDE 2.0

COMPACT CHARGER



Installation

1.1 General installation procedure

Preliminary requirements

	1. All required permits to agree with the local rules are granted. 2. The AC input cable is available.		• There is no voltage on the AC input cable during the complete installation procedure.
	• Tools for installation.		

Procedure

- 1. Unpack the EVSE.
- 2. Prepare the site.
- 3. Do the mechanical installation.
- 4. Do the electrical installation.
- 5. Install the cabinet cover.
- 6. Do the commissioning procedure.

1.2 Unpack the EVSE

- 1. Open the box.
- 2. Remove the EVSE from the box.
- 3. Remove all packaging material from the EVSE.
- 4. Discard the packaging material.
- 5. Make sure that all parts are delivered according to the order.
- 6. Do an inspection of the EVSE and the parts for installation for damage.
- 7. If you find damage or the parts are not according to the order, contact the local representative of the manufacturer (VerdeMobility EV Infrastructure).

2 Site preparation

2.1 Select the site

- 1. Find a suitable site on a wall. For the specifications of the wall.
- 2. Make sure that the correct power supply is available. For the power supply specifications.
- 3. Obey the space requirements.

2.2 Prepare the site
Preliminary requirements

	1. The site must be suitable to install the EVSE.
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Note: Information for MID certified EVSE:

- The meter is intended to be installed in a Mechanical Environment 'M1', with Shock and Vibrations of low significance, as per 2014/32/ EU Directive.
- The meter is intended to be installed in Electromagnetic Environment 'E2', as per 2014/32/EU Directive.

Procedure

- 1.Make sure that the space and the airflow around the EVSE are sufficient.
- 2.Make sure that the correct cables are available at the site.
 - Ethernet cable.

3 Mechanical installation

3.1 General mechanical installation procedure



Note: The mounting screws and plugs that are included in the delivery are serviceable for a brick wall. If you want to mount the EVSE on a different type of wall, contact your local representative of the manufacturer (VerdeMobility EV Infrastructure).

- 1. Prepare the holes for the mounting screws.
- 2. Install the upper mounting screws.
- 3. Install the EVSE on the site.

3.2 Prepare the holes for the mounting screws
Preliminary requirements

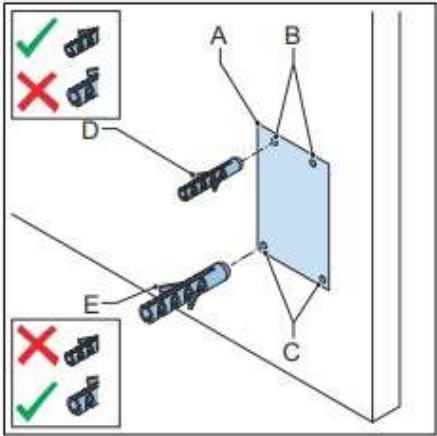
	• Spirit level • Drill		• Installation template. • Plugs for the upper mounting holes. • Plugs for the lower mounting holes.
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Procedure

- 1. Hold the installation template (A) against the wall.
- 2. Make sure that the installation is level.
Use the spirit level.
- 3. Mark the location for the mounting holes (B) and (C).
- 4. Drill the upper mounting holes (B) and the lower mounting holes (C).



Note: For the diameter of the holes, refer to the plugs for the upper and lower mounting holes.



- 5. Insert the plugs for the upper mounting holes (D) in the upper mounting holes.
- 6. Insert the plugs for the lower mounting holes (E) in the lower mounting holes

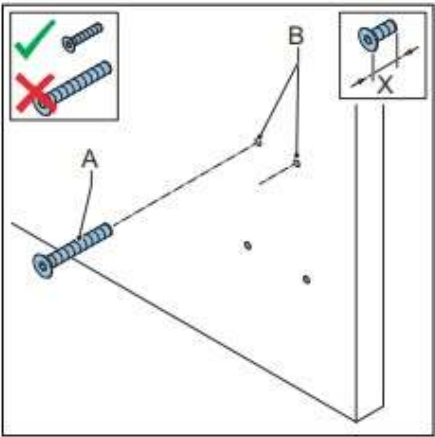
3.3 Install the upper mounting screws

Preliminary requirements

	1. The plugs for the upper and lower mounting screws are installed.		Upper mounting screws.
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Procedure

- 1.Install the upper mounting screws (A) in the upper holes (B).
- 2.Make sure that a length (X) of the screws stays out of the wall.
This length outside the wall is necessary to suspend the EVSE.

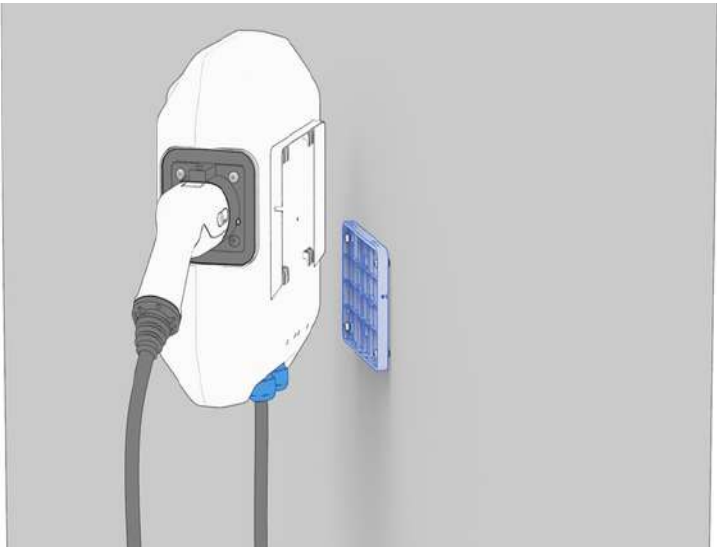


3.4 Install the EVSE on the wall

Preliminary requirements

	1. The upper mounting screws are installed.		Lower mounting screws.
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Procedure



- 1. Fit mounting plate on the wall by Anchor fastener (M6)
- 2. Hang the EVSE on mounting plate

4 Electrical installation

4.1

Generalelectricalinstallation procedure

Preliminary requirements



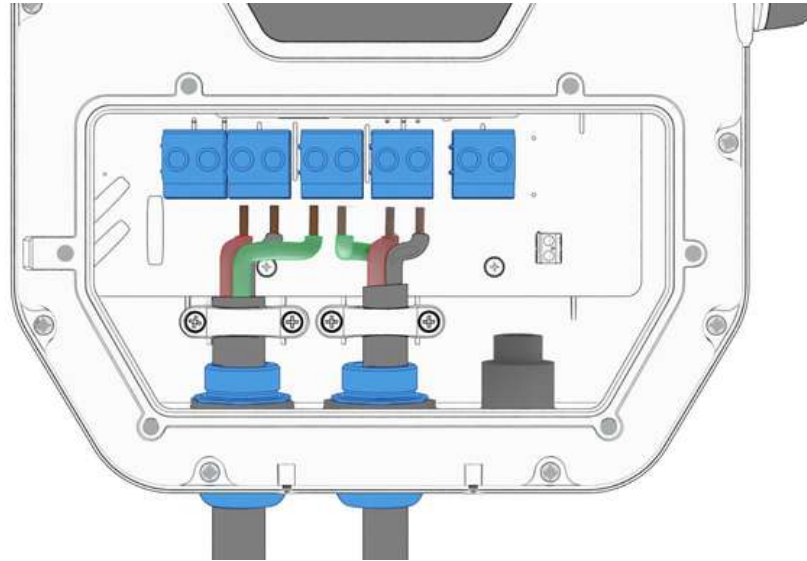
Procedure

- 1. Remove the maintenance cover.
- 2. Install the AC input cable.
 - Insert the AC input cable.
 - Connect the AC input cable.
- 3. Install the Ethernet cable.
 - Insert the Ethernet cable.
 - Connect the Ethernet cable.
- 4. If you want to use the internet, insert the M2M SIM card.
- 5. If necessary, replace the EV charge cable.
- 6. Install the maintenance cover.

4.2 Insert the AC input cable

Preliminary requirements

	• Screwdriver		• AC input cable
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Procedure

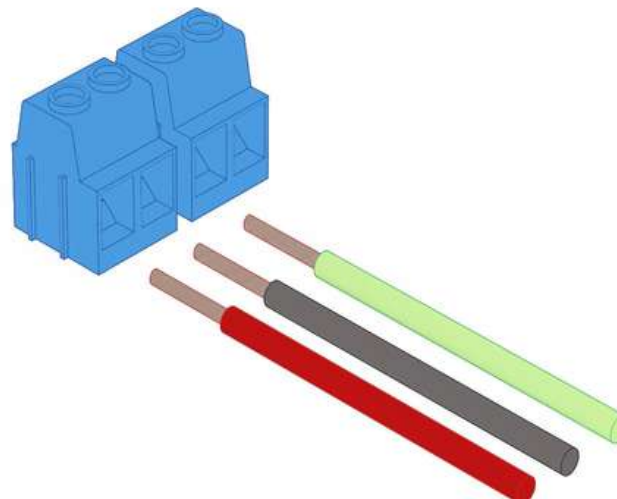
1. Loose the cable gland.
2. Pass the cable through the gland.
3. Tight the cable gland

4.3 Connect the AC input cable

4.3.1 Connect the AC input cable, 1 phase

Preliminary requirements

	• Torque screwdriver		• AC input cable (1 phase)
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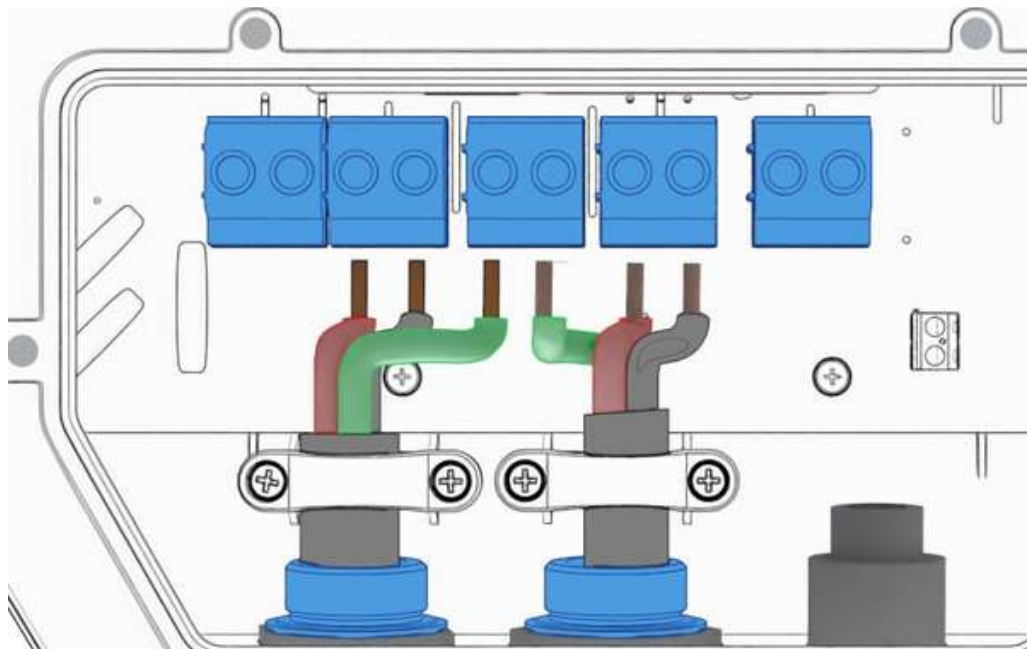
Procedure :

1. Loosen the screws.
2. Strip the wires.
3. Insert the cable connector into the terminal block.
4. Connect the below wires:
 1. Earthing wire
 2. Neutral wire
 3. AC input wire
5. Tighten the screws to the correct torque.

4.3.2 Secure the cables

Preliminary requirements

	• Torque screwdriver		• Strain relief for the cable
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Procedure

1. Secure the cables with the strain relief. 2.

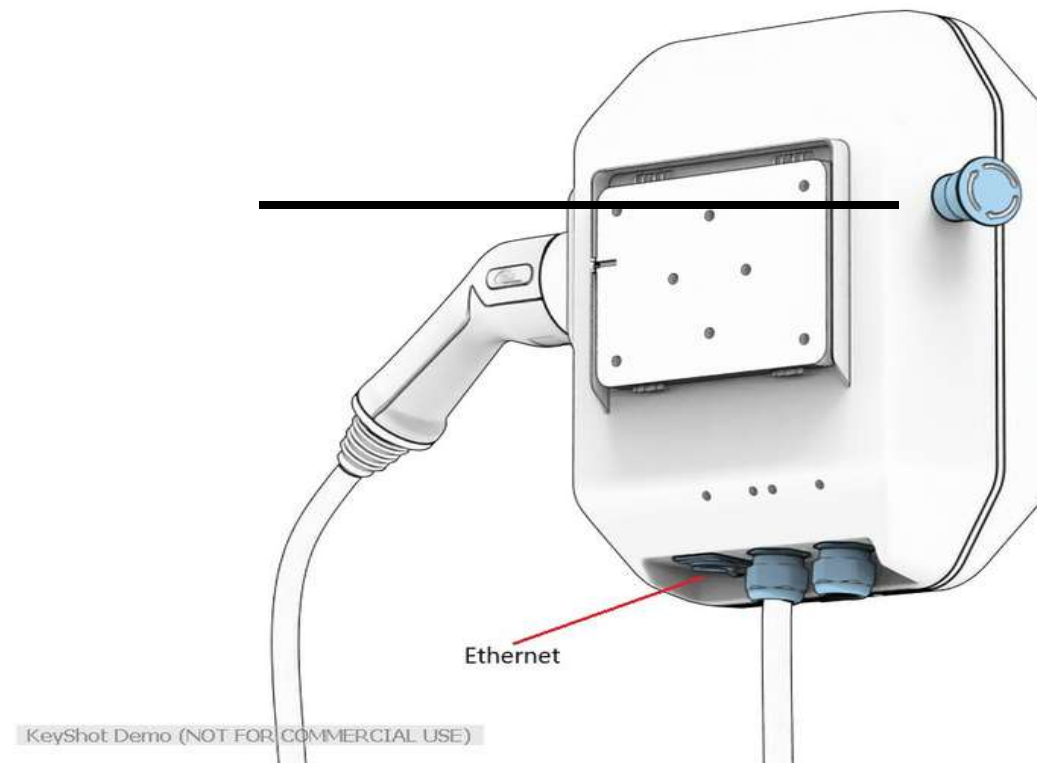
Install the two screws of the strain relief.

4.4 Communication connections

4.4.1 Insert the Ethernet cable

Preliminary requirements

1. Cabinet cover is removed.
2. The maintenance cover is removed.



Procedure

1. Remove the grommet from the EVSE.
2. Make a hole in the center of the grommet.
3. Install the grommet.
4. Put the Ethernet cable through the cable inlet hole.

4.4.2 Insert the Nano-M2M SIM card

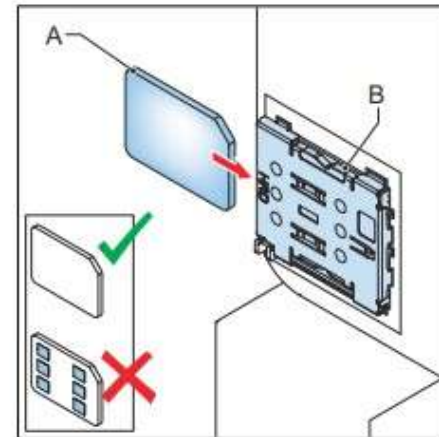
Preliminary requirements



- A Nano-M2M SIM card from the provider of the mobile network.

Procedure

1. Insert the M2M SIM card (A) into the socket (B). Make sure that the position of the connection points is correct.



4.5 De-energize the EVSE

- 1. Turn off MCB that supplies the power to the EVSE.
- 2. Wait for minimum 1 minute.

5 Technical data

INPUT POWER	
Input Voltage (AC)	230 Vac +10% or -6%
Input Frequency	50Hz
Wires	Single Phase
OUTPUT POWER	
Output Connector	Type 2 AC (IEC 62196-2)

Number Output	1
Output Current	32A Max Per output
Output Rating	240 Vac
ENVIRONMENT	
Ambient Temperature	0°C to 55°C
Storage Temperature	-20°C to 60°C
Altitude	<2000 mtr
Humidity	5% to 95%, non-condensing
USER INTERFACE AND CONTROL	
Display	4.3inch Graphical LCD
Language	English
Push button	Emergency Stop (Mushroom Red)
User Authentication	Using Mobile Application or User Interface/ QR Code/ RFID Card/ Password Login
Visual Indication	RGB LEDs
RFID Specifications	RC 522 RFID Reader ISO/IEC 14443A/MIF ARE
PROTECTION	
Protection	Over Current, Under Voltage, Over Voltage, Residual Current, Surge Protection, Short Circuit, Ground Fault Protection, Emergency Shutdown with Alarm, Over Temperature, Protection Against Electric Shock
COMMUNICATION	
Connectivity and CMS	OCPP v 1.6 over 10/100 Base-T Ethernet(Standard), GSM Modern(4G) and Wi-Fi
Charger and Vehicle	Type 2 AC as per IS 17017
MECHANICAL	
IP Rating	IP65
Shell Material	CRCA Sheet
Cooling	Natural Cooled
Product Dimension(L*W*H)	306mm*134mm*350mm

Certification	ARAI Certified
Product Weight	26kgs
PRODUCT PACKAGING WEIGHT	
Wooden Box	Additional 6-7 kgs
Corrugated Box	Additional 2-3 kgs

Note: If the above problems cannot be solved, please contact the Manufacture.